

DECLASSIFIED

Date: 1/10/14 Initial: jlh

HRS COVER SHEET

CONFIDENTIAL

FACILITY NAME: Purex Corp./Turco Products

EPA I.D. #: 1450
NYD 980530224 PLA-EPA 10/11/88

ORIGINAL PRIORITY: Low

REVIEWED BY: Mark Sadowski

REASSESSED PRIORITY: NFRAP

REVIEWED BY: Carol DiGuardia

COMMENTS:

PREPARER:

Carol DiGuardia

DATE: 10/06/88

235434



Purex Corp./Turco Products
NJD980530224

HRS

	s	s ²
Groundwater Route Score (S _{gw})	0.06	0.0036
Surface Water Route Score (S _{sw})	0.67	0.45
Air Route Score (S _a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		0.45
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		0.67
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		0.39

WORKSHEET FOR COMPUTING S_M

PRO

	s	s ²
Groundwater Route Score (S _{gw})	11.28	127.24
Surface Water Route Score (S _{sw})	13.54	183.33
Air Route Score (S _a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		310.57
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		17.62
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		10.18

WORKSHEET FOR COMPUTING S_M

Purex Corp / Turco Products

Ground Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO	
1 Observed Release	0 1 2 <u>3</u>	45	1		45	
If observed release is given a score of 45, proceed to line 4 . If observed release is given a score of 0, proceed to line 2 .						
2 Route Characteristics						
Depth to Aquifer of Concern	0 1 2 <u>3</u>	2	0	6	6	
Net Precipitation	0 1 <u>2</u> 3	1	2	3	2	
Permeability of the Unsaturated Zone	0 1 2 <u>3</u>	1	0	3	3	
Physical State	0 1 2 <u>3</u>	1	0	3	3	
Total Route Characteristics Score			2	15	14	
3 Containment	0 1 <u>2</u> 3	1	1	3	3	
4 Waste Characteristics						
Toxicity/Persistence	0 3 <u>6</u> 9 12 15 <u>18</u>	1	6	18	18	
Hazardous Waste Quantity	0 1 2 3 <u>4</u> 5 6 7 8	1	0	8	4	
Total Waste Characteristics Score			6	26	22	
5 Targets						
Ground Water Use	0 <u>1</u> 2 3	3	3	9	3	
Distance to Nearest Well/Population Served	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;"> <u>0</u> 12 24 </div> <div> <u>1</u> 16 30 </div> <div style="margin-left: 5px;"> 6 18 32 </div> <div style="margin-left: 5px;"> 8 20 35 </div> <div style="margin-left: 5px;"> 10 40 40 </div> </div>	1	0	40	4	
Total Targets Score			3	49	7	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			36	57.330	6468	
7 Divide line 6 by 57.330 and multiply by 100			S _{gw} = 0.06		11.28	

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Purex Corp. Turbo Prod.

Surface Water Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO	
1 Observed Release	<u>0</u> 45	1	<u>0</u>	45	<u>0</u>	
If observed release is given a value of 45, proceed to line 4 . If observed release is given a value of 0, proceed to line 2 .						
2 Route Characteristics						
Facility Slope and Intervening Terrain	<u>0</u> 1 2 3	1	<u>0</u>	3	<u>0</u>	
1-yr. 24-hr. Rainfall	0 1 <u>2</u> 3	1	<u>2</u>	3	<u>2</u>	
Distance to Nearest Surface Water	0 1 2 <u>3</u>	2	<u>6</u>	6	<u>6</u>	
Physical State	<u>0</u> 1 2 <u>3</u>	1	<u>0</u>	3	<u>3</u>	
Total Route Characteristics Score			<u>8</u>	15	<u>11</u>	
3 Containment	0 <u>1</u> 2 <u>3</u>	1	<u>1</u>	3	<u>3</u>	
4 Waste Characteristics						
Toxicity/Persistence	0 3 <u>6</u> 9 12 15 <u>18</u>	1	<u>6</u>	18	<u>18</u>	
Hazardous Waste Quantity	<u>0</u> 1 2 3 <u>4</u> 5 6 7 8	1	<u>0</u>	8	<u>4</u>	
Total Waste Characteristics Score			<u>6</u>	26	<u>22</u>	
5 Targets						
Surface Water Use	0 <u>1</u> <u>2</u> 3	3	<u>3</u>	9	<u>6</u>	
Distance to a Sensitive Environment	0 1 2 <u>3</u>	2	<u>6</u>	6	<u>6</u>	
Population Served/Distance to Water Intake Downstream	<u>0</u> 4 6 8 10 12 16 18 20 24 30 32 35 40	1	<u>0</u>	40	<u>0</u>	
Total Targets Score			<u>9</u>	55	<u>12</u>	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			<u>432</u>	64,350	<u>8712</u>	
7 Divide line 6 by 64,350 and multiply by 100			$S_{sw} = $ <u>0.67</u>		<u>13.54</u>	

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Air Route Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	0 45	1		45	5.1	
Date and Location:						
Sampling Protocol:						
If line 1 is 0, the $S_a = 0$. Enter on line 5 If line 1 is 45, then proceed to line 2						
2 Waste Characteristics					5.2	
Reactivity and Incompatibility	0 1 2 3	1		3		
Toxicity	0 1 2 3	3		9		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8		
Total Waste Characteristics Score				20		
3 Targets					5.3	
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30		
Distance to Sensitive Environment	0 1 2 3	2		6		
Land Use	0 1 2 3	1		3		
Total Targets Score				39		
4 Multiply 1 x 2 x 3				35,100		
5 Divide line 4 by 35,100 and multiply by 100			$S_a =$			

FIGURE 9
AIR ROUTE WORK SHEET